

Claims

1. An air conditioning apparatus wherein said apparatus has: a heat source device comprising a compressor and a heat source heat exchanger; plural heat exchangers; and plural flow controllers respectively corresponding to said heat exchangers, a gas refrigerant is flown into at least one heat exchanger in at least one indoor unit to cause said indoor unit to perform a heating operation, or a liquid refrigerant is flown to cause said indoor unit to perform a heating operation, a gas refrigerant is flown into at least one heat exchanger in at least one other indoor unit, and a liquid refrigerant is flown into at least one of remaining heat exchangers to cause said indoor unit to perform a temperature and humidity controlling operation.

2. An air conditioning apparatus according to claim 1, wherein said indoor units have a water tank and a water supply adjusting valve.

3. An air conditioning apparatus according to claim 1, wherein said indoor units have a fan which sends air to plural inside heat exchangers.

4. An air conditioning apparatus according to claim 2, wherein said indoor units are configured by: a standard indoor unit in which a fan, at least one heat exchanger, and a corresponding flow controller are housed in a case; a reheater in which the remaining heat exchanger(s) and a corresponding flow controller(s) are housed in a case; and a humidifier.

5. An air conditioning apparatus according to claim 4, wherein said apparatus has a branching portion which causes refrigerants flowing out from plural standard indoor units to join together, and the joined refrigerant to flow into heat exchangers of plural reheaters.

6. An air conditioning apparatus according to claim 4, wherein said apparatus has a branching portion which causes refrigerants flowing out from plural reheaters to join together, and the joined refrigerant to flow into heat exchangers of plural standard indoor units.

7. An air conditioning apparatus according to claim 4, wherein said apparatus has: temperature detecting means for detecting a room temperature; humidity detecting means for detecting a room humidity; and a controlling device which, on the basis of the detected temperature and

humidity, controls numbers of rotations of said fans of said indoor units, flow amounts of said flow controllers, and a degree of opening of said water supply adjusting valve.

8. An air conditioning apparatus according to claim 7, wherein said controlling device has a correlation table of temperatures and humidities, and compares sensed room temperature and humidity with said correlation table, thereby controlling the numbers of rotations of said fans of said indoor units, the flow amounts of said flow controllers, and the degree of opening of said water supply adjusting valve.

9. An air conditioning apparatus according to claim 4, wherein said apparatus has: first temperature detecting means disposed on an inlet side of a heat exchanger; second temperature detecting means disposed on an outlet side of said heat exchanger; and a controlling device which, on the basis of temperatures detected by said first temperature detecting means and said second temperature detecting means, controls a flow amount of said flow controller.

10. An air conditioning apparatus having: a heat source

device comprising a compressor, a four-way reversing valve, and a heat source heat exchanger; plural indoor units comprising plural heat exchangers, a fan which blows air to said plural heat exchangers, and plural flow controllers respectively corresponding to said heat exchangers; a first connecting pipe and a second connecting pipe in each of which one end portion is connected to said heat source device; a first branching portion which is connected to said heat exchangers of said indoor units, and said first connecting pipe and said second connecting pipe; a second branching portion which causes pipes connected to said flow controllers of said indoor units to join together, and a joined pipe to be connected to said first connecting pipe and said second connecting pipe; and a valve device which is disposed in said first branching portion, and which causes said indoor units to selectively communicate with said first connecting pipe or said second connecting pipe.

11. An air conditioning apparatus wherein said apparatus has: a heat source device comprising a compressor and a heat source heat exchanger; plural indoor units comprising plural heat exchangers, a fan which blows air to said plural heat exchangers, and plural flow controllers respectively corresponding to said heat exchangers; a

first connecting pipe, a second connecting pipe, and a third connecting pipe in each of which one end portion is connected to said heat source device; a first valve which is disposed between said heat exchangers of said indoor units and said first connecting pipe; a second valve which is disposed between said heat exchangers and said second connecting pipe; a third valve which is disposed between said first connecting pipe and said heat source heat exchanger; and a fourth valve which is disposed between said second connecting pipe and said heat source heat exchanger, said first connecting pipe and said second connecting pipe are connected to one inlet/outlet port of said heat source heat exchanger, and said third connecting pipe is connected to another inlet/outlet port of said heat source heat exchanger.